

Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 9

Complete if Known

Application Number	
Filing Date	Herewith
First Named Inventor	David W. Bainbridge
Group Art Unit	3741
Examiner Name	Patel
Attorney Docket Number	2400/14

JCG 930 U.S. 18/19 PTO

10/06/00

U.S. PATENT DOCUMENTS

Examiner Initials*	Cita No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Accor-
		Number	Kind Code: (if known)			
	1,652,776			Galanis	12-13-27	
	2,179,631			Holder	11-14-39	
	3,304,219			Nickerson	02-14-67	
	3,459,179			Olesen	08-05-69	
	3,503,841			Sterrett	03-31-70	
	3,529,306			Thorne	09-22-70	
	3,552,044			Wiele	01-05-71	
	3,629,882			Thorne	12-28-71	
	3,663,344			Brock et al.	05-16-72	
	3,755,063			Massev et al.	08-28-73	
	3,816,234			Winfield	06-11-74	
	4,011,611			Lederman	03-15-77	
	4,139,920			Evans	02-20-79	
	4,193,499			Lockholder	03-18-80	
	4,343,047			Lazowski et al.	08-10-82	
	4,472,472			Schultz	09-18-84	
	4,620,633			Lockholder	11-04-86	
	4,642,814			Godfrey	02-17-87	
	4,657,003			Wirtz	04-14-87	
	5,079,787			Pollmann	01-14-92	

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

Date
Considered

***EXAMINER:** initial if reference considered, whether or not citation is in conformance with MPEP 509. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number : See attached *Guide of U.S. Patent Documents*. ² Enter Office that issued the document by the two-letter code (WPO Standard ST 01). ³ For Japanese patent documents, the indication of the year or the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WPO Standard ST. 16 if possible. ⁵ Applicant is to place a check mark here if English language Translation is attached.

Burden Your Statement: This form is estimated to take 2 0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments or the amount of time you are required to complete this form should be sent to the Chief Information Officer Patent and Trademark Office, Washington, DC 20231.

Approved for use through 10/31/99; OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 9

Sheet 2 of 9 Attorney Docket Number 2400/14

Complete if Known

Application Number	
Filing Date	Herewith
First Named Inventor	David W. Bainbridge
Group Art Unit	3741
Examiner Name	Patel



U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

**Examiner
Signature** **Date
Considered**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not
pertinent. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached *Kinds of U.S. Patent Documents*. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year or the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments or suggestions concerning this estimate or any aspect of this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20591. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Washington, DC 20591.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	
				Filing Date	Herewith
				First Named Inventor	David W. Bainbridge
				Group Art Unit	3741
				Examiner Name	Patel
Sheet	3	of	9	Attorney Docket Number	2400/14

U.S. PATENT DOCUMENTS

Examiner Initials'	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
		3,477,562		Allen et al.	11-11-1969	
		3,563,837		Smith et al.	02-16-1971	
		3,606,726		Spertus et al.	09-21-1971	
		3,889,444		Davis et al.	06-17-1975	
		3,968,620		Keltner	07-13-1976	
		4,054,204		Keeton	10-18-1977	
		4,102,109		Modra et al.	07-25-1978	
		4,121,399		Verville	10-24-1978	
		4,391,561		Smith et al.	07-05-1983	
		4,640,080		Wright	02-03-1987	
		5,052,874		Johanson	10-01-1991	
		5,079,787		Pollmann	01-14-1992	
		5,351,830		Bender et al.	10-04-1994	
		5,515,975		Jarvis et al.	05-14-1996	
		5,622,030		Steed et al.	04-22-1997	
		5,694,747		Tesch	12-09-1997	
		5,711,215		Sextl et al.	01-27-1998	
		5,712,015		Guillem	01-27-1998	

FOREIGN PATENT DOCUMENTS

Examiner _____ **Date** _____
Signature _____ **Considered** _____

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 509. Draw line through citation if not in conformance and not considered. Justice copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached *Kinds of U.S. Patent Documents*. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments or suggestions concerning this estimate or any other aspect of this form should be directed to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
1100 L Street, N.W., Washington, D.C. 20591, (202) 707-7650, OMB 0651-0031
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

4

of

0

Complete if Known

Application Number	
Filing Date	Herewith
First Named Inventor	David W. Bainbridge
Group Art Unit	3741
Examiner Name	Patel
Attorney Docket Number	2400/14

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		2,298,218		Madson	06-27-1940	
		3,608,961		Heck	09-28-1971	
		3,762,404		Sakita	10-02-1973	
		3,968,530		Dyson	07-13-1976	
		4,171,549		Morrell et al.	10-23-1979	
		4,370,754		Donzis	02-01-1983	
		4,432,110		Sutton	02-21-1984	
.		4,475,248		L'Abbe et al.	10-09-1984	
		4,577,358		Glass	03-25-1986	"
		4,606,087		Alivizatos	08-19-1986	"
		4,607,403		Alivizatos	08-26-1986	"
		4,905,320		Squvers, Jr.	03-06-1990	"
		5,134,725		Yeshurun et al.	08-04-1992	"
		5,152,019		Hirata	10-06-1992	"
		5,279,237		Alivizatos	01-18-1994	"
		5,537,688		Reynolds et al.	07-23-1996	
		5,733,012		Jones	03-31-1998	
		5,778,470		Haider	07-14-1998	
		5,826,273		Eckes	10-27-1998	

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered
-----------------------	--	--------------------

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 509. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Shee

5

9

Complete if Known

Application Number	
Filing Date	Herewith
First Named Inventor	David W. Bainbridge
Group Art Unit	3741
Examiner Name	Patel
Attorney Docket Number	2400/14

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS						Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
Examiner Initials*	Cita No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY		
		Number	Kind Code ² (if known)				
		2,404,758		Teague et al.	12-10-1940		
		3,006,780		Shaffer	11-04-1959		
		3,304,219		Nickerson	05-02-1962		
		3,616,162		Noziere	10-26-1971		
		3,857,731		Merrill, Jr. et al.	12-31-1974		
		3,864,181		Wolinski et al.	02-04-1975		
		4,624,893		Shibano et al.	11-25-1986		
		4,705,715		DeCoste, Jr. et al.	11-10-1987		
		4,740,416		DeCoste, Jr. et al.	04-26-1988		
		4,855,170		Darvell et al.	08-08-1989		
		5,055,340		Matsumura et al.	10-08-1991		
		5,614,310		Delgado et al.	03-25-1997		
		5,720,714		Penrose	02-24-1998		
		5,746,013		Fay, Sr.	05-05-1998		
		4,756,026		Pierce	07-12-88		
		5,301,370		Henson	04-12-94		
		3,489,154		Kaspar et al.	01-13-70		
		5,916,672		Reeves	06-29-99		

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

Date
Considered

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign or the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	
Filing Date				Herewith	
First Named Inventor				David W. Bainbridge	
Group Art Unit				3741	
Examiner Name				Patel	
Sheet	6	of	9	Attorney Docket Number	2400/14

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered
-----------------------	--	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →

PTO/SB/08A (10-96)

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Selection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	
Sheet	7	of	9	Filing Date	Herewith
				First Named Inventor	David W. Bainbridge
				Group Art Unit	3741
				Examiner Name	Patel
				Attorney Docket Number	2400/14

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →

PTO/SB/08A (10-96)

Approved for use through 10/31/99, OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 8 of 9

Complete if Known

Application Number	
Filing Date	Herewith
First Named Inventor	David W. Bainbridge
Group Art Unit	3741
Examiner Name	Patel
Attorney Docket Number	2400/14

Shee

8 of 9

Attorney Docket Number 2400/14

U.S. PATENT DOCUMENTS

Examiner Initials'	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	3,354,578			Ryan	11-28-1967	
	3,640,787			Heller	02-08-1972	
	3,663,469			Weissmahr	05-16-1972	
	3,676,288			Hoyle	07-11-1972	
	3,978,263			Wellensiek	08-31-1976	
	4,229,398			Harvey	10-21-1980	
	4,240,998			Lichter et al.	12-23-1980	
	4,243,617			Burge	01-06-1981	
	4,443,286			Ikeda et al.	04-17-1984	
	4,492,877			Burnett	01-15-1985	
	5,080,737			Shoner	01-14-1992	
	5,587,231			Mereer et al.	12-24-1996	
	6,027,806			Abe et al.	02-22-2000	
	4,239,519			Beall et al.	12-16-1980	
	4,441,905			Malmendier et al.	4-10-1984	
	4,751,202			Toussaint	6-14-1988	
	4,751,203			Toussaint	6-14-1988	
	4,989,794			Askew et al.	2-5-1991	
	5,292,840			Heilmann et al.	3-8-1994	

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Please type a plus sign (+) inside this box →

PTO/SB/08B (10-96)

PTO/SB/088 (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Collection of information unless it contains a valid OMB control number.

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

She

1

10

6

Complete if Known

Application Number	
Filing Date	Herewith
First Named Inventor	David W. Bainbridge
Group Art Unit	3741
Examiner Name	Patel
Attorney Docket Number	2400/14

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English is not your primary language.

I am to place a check mark here if English language Translation is attached.
Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments or
the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231